Form MR-SMO (Revised March 9, 2011)

1.

This Section for DOGM Use: Assigned DOGM File No.:	S/0	0470063	
DOGM Lead:			
Permit Fee \$		Ck#	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

1594 West North Temple Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Telephone: (801) 538-5291 Fax: (801) 359-3940

NOTICE OF INTENTION TO COMMENCE SMALL MINING OPERATIONS

The information requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1987, and the General Rules as promulgated under the Utah Minerals Regulatory Program (R647). The rules and Act are available online at http://www.rules.utah.gov/publicat/code/r647/r647.htm and http://le.utah.gov/~code/TITLE40/40_08.htm.

Cultural Resources Survey: To fulfill its obligations under Utah Code Annotated 9-8-404, the Division needs cultural resource (archaeology) information. The amount and type of information required will depend on the mine location, the history of previous disturbance, and other factors. Please contact the Division for further information.

A permit fee of \$150 must accompany this application (Utah Code Ann. §40-8-7(1)(i)) and is due annually.

"Small Mining Operations" are operations which have a disturbed area of ten or fewer surface acres at any time in unincorporated areas, or five acres or fewer in incorporated areas.

Operator Name (Legal Name):	Ziegler Chemical & Mineral Corp		
Mailing Address: 366 North Broadway, Suite 210			
City, State, Zip: Jericho, New York 11753			
Phone: 516-681-9600	Fax: 516-681-9604		
E-mail Address: catherineziegler@co	omcast net		
	STITUTE STATE OF THE STATE OF T		
Type of Business: Corporation (_X), LLC (), Sole Proprietorship (dba) () ed Partnership (), Individual ().		

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JUN 27 2011

	Contact Person(s)
	Name: CHIP ZIEGLER Title: V.P. Address: 366 N. BROADWAY SUITE 210
	Address: 366 N. BROADWAY SUITE 210
	City, State, Zip: JERICHO NY 11753
	Phone: 516-681-9600 Fax: 516-681-9604
	Emergency, Weekend, or Holiday Phone: 516-606-1656
	E-mail Address: Chip@ Zieglerchemical.com
onta	act person to be notified for: permitting () surety () Notices () (please check all that
pply	
	Name: CATHERINE ZIEGLER Title: V.P. Address: 943 WOODRIDGE BIVO.
	Address: 943 WOODRIDGE BIVO.
	City, State, Zip: Lancaster PA 17601
	Phone: 717-393-1172 Fax: # 888-208-6240
	Emergency, Weekend, or Holiday Phone: 717-725-1006
	E-mail Address: <u>Cothennezieglere</u> concastinet
onta	act person to be notified for: permitting (surety (Notices) (please check all that
oply	
	Registered <u>Utah</u> Agent (as identified with the Utah Department of Commerce) (if individual
	leave blank):
	Name: MCKEACHNIE LAW OFFICES P.C. GAYLEMCKE
	Address: 2575 W. HWY 40
	City, State, Zip: VERNAL UTAH 300 84078 Phone: 435-789-4908 Fax: 435-789-4918
	Phone: 435-789-4908 Fax 435-789-4918
	E-mail Address: info@mckeachnie.com
	If Business is a Sole Proprietor:
	Name of Owner: Title:
	Business Address:
	City, State, Zip:
	Phone: Fax:
	E-mail Address:
	If Business is a Corporation:
	Name of Officers: Gordon S. Ziegler Jr Title: PRES
	CAMERINE ZIEGLEC Title: V.P.
	Chie Ziegler Title V.P.
	Title:
	Headquarters Address: 366 N. BROADWAY SUITE 210
	City, State, Zip: JERICHO, NY 11753
	Headquarters Phone: 516-681-9600 Fax: 516-681-9604
	E-mail Address: Couthenne Zicquer & Conscartinet
	E mail radicos.
	If Business is a Limited Liability Company: Member Managed G Manager Managed G
	Name of 1st Mambar/Managari A A A Title:
	Name of 1 st Member/Manager:
	City, State, Zip:
	Phone: Fax:
	E-mail Address: Fax: JUN 1 7 2010
	E-mail Address:
	Name of 2 nd Member/Manager: A I / A DIV. OIL GAS & MINING
	Traine of 2 Wellbertvlanager.
	Business Address:
	City, State, Zip:
	Phone: Fax: RECEIVED
	E-mail Address:
	11N 1 A 2010

Form MR-SMO 09212009

	scribe):
Name_SIT	A- Address THS R24 & SEC. 32
Name	1 2 2
	Address Shc. UT 84102
Name	Address
Ownership of M	linerals:
Name 517	Address 4 6 73 6 3002 30012 301
Name	
Management	Address
Name	
	roject File Number(s) and/or USFS assigned Project Number(s)
BLM Lease or Pr	(1) 10 HT - 1
BLM Lease or Pr	N/A

Please be advised that if State Trust Lands are involved, notification to the Division of Oil, Gas and Mining alone does not satisfy the notification requirements of Mineral Leases upon State Trust Lands. Exploration or mining activity on State Trust Lands requires a minimum of 60 days notice to the Trust Lands Administration prior to commencing any activities. Please contact the School Institutional Trust Lands Administration (SITLA) at (801) 538-5508 for notification requirements.

8. Does the Entity have legal right to enter and conduct mining operations on the land covered by this notice? Yes _____ No____

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DIV. OIL GAS & MINING

Form MR-SMO 03132007 II.

III.

	County(ies): <u>Uintah</u>			
	SE 1/4, of NW 1/4, of SE 1/4, Section: 32 Township: 11S Range: 24E			
	N 1/2 , of NE 1/4, of SW 1/4, Section: 32 Township: 11S Range: 24E 1/4, of 1/4, of 1/4, Section: Township: Range: 24E			
	UTM East: (if known) UTM North: (If known			
Name of Quad Map for Location: Archy Bench SE Quadrangle & Rainbow Quadrangle				
Is the project within an incorporated area? () Yes (_x) No				
If yes, what is the town or city?				
Location and Operations maps must be plotted at a scale to accurately identify locational landmarks and operations details. All maps must include a north arrow, scale, appropriate lab				
	and title box including the mine name, township, range and section.			
	The second leading was the three leaf a 11000 7.5 with the size of			
	a. The general location map must be the scale of a USGS 7.5 minute series map or equivalent (1"=2000') and identify new or existing access roads.			
	(1 2000) and restring new or existing assess roads.			
	b. The operations map (1"=200' or other scale as determined necessary by the Division) must be			
	labeled and identify: i. The area to be disturbed;			
	ii. The location of any existing or proposed operations including access roads, drill holes,			
	trenches, pits, shafts, cuts, or other planned activities; and			
	iii. Any adjacent previous disturbance for which the operator is not responsible.			
	(Contact the Division for a list of consultants and land surveyors for mapping assistance.)			
	The proposed (5 acre or less) disturbed area (including access/haul roads) should be marked ON			
	The proposed (5 acre or less) disturbed area (including access/haul roads) should be marked ON THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers			
	THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the			
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•	THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the naked eye.			
(THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the naked eye. OPERATION PLAN (Rule R647-3-106)			
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	THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the naked eye. OPERATION PLAN (Rule R647-3-106) Type of mining: Surface () Underground (x_)			

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5.	Provide a brief description of the proposed mining operation , and onsite processing facilities (add extra pages if necessary). See attached "Proposed Mine Plan"					
	Drill Neal 6 – 2 dry holes measuring 2.75" in diameter which will be plugged					
	Drill Neal 2A – 9 dry holes measuring 2.75" in diameter which will be plugged					
	Trenching on the Neal 2A will be up to 500' along the strike of the vein & 10 feet deep. All					
	disturbed trenching will be back filled upon completion.					
6.	(_x_) New Road(s): Length Neal 5 = 600 (ft), Width 16 (ft)					
0.	Length Neal $2A = 290$ (ft), Width 12 (ft)					
7.	() Improved Road(s): Describe improvements that need to be made to existing roads to access the site, including the Length (ft) and Width (ft) of new disturbances.					
8.	Total project surface acreage to be disturbed : Neal 5= .89, Neal 6 = .5 and Neal 2A = 1 (acres) PLEASE SPECIFY EXACT ACREAGE (this will be used to determine surety bond amount – see #VI).					
9. 10.						
IV. O	PERATION AND RECLAMATION PRACTICES (Rule R647-3-107, 108 & 109)					
	The reclamation and operation obligation is to keep the area clean and safe, minimize hazards to public safety, return the land to a useful condition, and reestablish at least 70 percent of the premining vegetative ground cover or within practical limits. To accomplish this, the Permittee / Operator will need to perform reclamation concurrently, or at the completion (within one (1) year) of mining. Please refer to The Practical Guide to Reclamation in Utah , available at:: https://fs.ogm.utah.gov/pub/MINES/Coal_Related/RecMan/Reclamation_Manual.pdf .					
1.	Keep the mining operation in a safe, clean, and environmentally stable condition.					
2.	Permanently seal all shafts and tunnels to prevent unauthorized or accidental entry.					
3.	Plug drill holes with a five foot cement surface plug. Holes that encounter fluids are to be plugged in the subsurface to prevent aquifer contamination.					
4.	Construct berms, fences, or barriers, when needed, above highwalls and excavations.					
5.	Remove, isolate, or neutralize all toxic materials in a manner compatible with federal and state regulations.					
6.	Remove all waste or debris from stream channels.					
7.	Dispose of any trash, scrap metal, wood, machinery, and buildings. APPROVED					
8.	Conduct mining activities so as to minimize erosion and control sediment. JUN 27 2011					
9.	Reclaim all roads that are not part of a permanent transportation system. DIV. OIL GAS & MINING					
10	Stockpile topsoil and suitable overburden prior to mining.					

11. Stabilize highwalls by backfilling or rounding to 45 degrees or less, where feasible; reshape the land to near its original contour, and redistribute the topsoil and suitable overburden.



VARIANCE REQUEST (Rule R647-3-110)

Any variance request must be approved in writing by the Division

Any planned deviations from Rules R647-3-107, Operation Practices, R647-3-108, Hole Plugging Requirements, or R647-3-109, Reclamation Practices, as summarized above (see IV. Operation and Reclamation Practices Item # 1-14), should be identified below listing applicable rule number. Give justification for the variance(s) and alternate methods or measure to be utilized. Written approval from the Division will be given, if the proposed alternative methods to be used are consistent with the Act.

	N/A
tem# Justification:	Applicable Rule # (i.e. R647-3-109.10 (if you did not want trenches & pits reclaimed)
Alternate metho	ods or measure to be utilized:
2 nd Variance Re	equested
	N/A
Item#	Applicable Rule #
Justification:	
Alternate metho	ods or measure to be utilized:
3 rd Variance Re	quested
	NIA
Item#	Applicable Rule #
Justification: _	
Alternate metho	ods or measure to be utilized:

VI. SURETY (Utah Code Ann. §40-8-7(1)[c])

A reclamation contract and surety must be provided to and approved by the Division prior to commencement of operations. All mining operations are required to furnish and maintain reclamation surety to guarantee that the land affected is reclaimed (Utah Code Ann. §40-8-7(1)[c]).

The reclamation surety amount is based on the nature, extent and duration of operations. The amounts are based on data from current large mine surety and are used as a general guide, along with actual site conditions. Reclamation surety for small mines is reviewed every three (3) or five (5) years and adjusted as necessary for inflation/deflation based upon acceptable Costs Index. Contact the Division for the dollar amount required for a three (3) or five (5) year period for this project.

I have provided or will provi Certificate of Deposit Other	de surety in the form of Letter of Credit	Surety Bond	■ Cash (certified funds) ignity) undecided
• Other		(please identifi	y) anaccided

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VIII. SIGNATURE REQUIREMENT

CERTIFICATION

I state under penalty of perjury under the laws of the state of Utah and the United States of America that:

- a. I have read this form and declare the information, statements and/or documentation are true, correct and complete to the best of my knowledge and belief; AND
- b. I commit to the reclamation of the aforementioned small mining project as required by the Utah Mined Land Reclamation Act (40-8) and the rules as specified by the Board of Oil, Gas and Mining.
- c. This certification must be signed by: (1.) an executive officer if the applicant is a corporation; (2.) a partner if applicant is a partnership (general or limited); (3.) the owner if applicant is a sole proprietorship; or (4.) the member or manager if applicant is a limited liability company.

Signature:

Date

Name (typed or printed):

Title/Position (if applicable):

TENA

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STAR ROUTE, LITTLE BONANZA, UTAH 84078

TEL. 1-435-789-3595 • www.zieglerchemical.com

Neal 2A Mine Plan

Ziegler Chemical & Mineral Corp. Propose to remove Gilsonite from the Neal 2A Mine located in Section 32, T11S R24E.

In order to supply the quality and quantity of Gilsonite requested by our customers, ZCMC would like to re-commence mining operations immediately upon approval of this mine plan.

Neal 2A will be approximately 1900 feet west from the present mine opening of Neal 5. An ore bin and airlift system will be installed at the mine shaft to remove ore from the mine. ZCMC will place a derrick and hoist for the raising and lowering of men and materials.

The normal workforce would include two underground miners, one hoist man at the surface and on occasion one timber man. If demand increases more crews will be put in place to meet our customer's needs. The ore mined will reach the surface in an ore bin, from which it will be loaded into covered trucks and transported to ZCMC facilities at Little Bonanza.

The new road will be approximately 290 feet long by 12 feet wide. Due to the grade of the terrain construction, this road will require very little cut & fill. In addition, an area 150 feet by 300 feet will be leveled by cut and fill at the location of the Neal 2A hoist house and compressor shed. The total new disturbed area will be about 1.5 acres including the road.

A portal will be built at the entrance of the Neal 2A mine to facilitate entry and exit of men and equipment. At the Neal 2A mine, a concrete collar approximately 18x 4 feet will be constructed at the surface to stabilize the shaft opening. All openings in the ground (shafts and escape ways) would be fenced with chain link.

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All enclosures would have gates with locks to provide a first line of security. Sufficient area inside the fenced area would be maintained for ingress and egress. The gates would be locked when the mine is not in operation. Signs will be placed in order to warn the public of mining operations.

A number of facilities other than the opening for the mine shaft and escape ways would be located on the surface, including:

- A hoist house and head frame to raise and lower the conveyance in the shaft at Neal 2A.
- A 25-30 ton ore bin for the storage and loading of Gilsonite will be located on each mine site.
- A dust collector will be placed on the top of each storage bin to remove dust from the airlift system.
- Airlift fans will be installed on pad next to each head frame. These fans are designed to lift ore to the surface through a 12-inch pipe in the utility shaft.
- A compressor shed, for the diesel-powered compressor.
- Electricity to supply power to the hoists, compressor and fans would be provided by a diesel generator.

Top soil from disturbed areas would be stored in piles in the immediate vicinity of the area from which it will be removed. The topsoil pile will be seeded to stabilize it for future reclamation use.

A small waste rock pile. It is anticipated that very little waste rock would be produced. Only the Gilsonite would be extracted from the vein.

No water would be used in the mining operation. Any underground water encountered will be handled in accordance with federal water regulations and requirements.

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Three Ansul 20-pound fire extinguishers would be on hand: two in the hoist house, and one by the compressor. All rules and regulations regarding fire prevention would be strictly adhered to. If a fire grows so large that is cannot be controlled with fire Extinguishers, Deseret Generation and Transmissions fire crew will be called to assist in fighting the fire. Uintah County/Vernal City will also be called as back up. If an under ground fire occurs, the mine would be sealed. In order to prevent an underground fire, the following precautions will be taken:

- All combustible materials including vegetation will be kept away from mine openings;
- Fire retardant paint will be put on all timber used in mine openings;
- No electrical equipment will be used underground
- Smoking and smoking materials will be prohibited underground.
- There will not be any explosives stored at the mine site.

Miners will be instructed to maintain a clean camp and to report any unusual activities that could be detrimental and/or unlawful. In order to minimize impacts to the environment from personnel involved in mining activities, employees would be subject to the following regulations:

- No open fires of any kind except in approved buildings in approved stoves or furnaces
- No illegal harassing or shooting of wildlife.
- No trash left in any unauthorized place.
- No unnecessary off-road driving.
- No collecting of plants.

For safety and mine efficiency, mobile telephone communications will be maintained between the mine and the Ziegler office in Little Bonanza.

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All garbage and solid wastes (other than wasted rock) will be placed in covered 55 gallon cans then taken to a dumpster, located on ZCMC property. A toilet will be located at the mine site for use by ZCMC personnel. A 10 foot deep pit will be dug underneath the toilet facility to accommodate sewage, which will be allowed to decompose in –situ.

When the mineshafts and escape ways are ready for closure, final designs would be submitted to the Division before seal construction. The collar and other structures will be removed. The mine openings will be sealed with 18 inch thick concrete reinforced with rebar placed on 12 inch centers. If the seal is to be in an exposed rock outcrop, the top of the seal will be constructed to conform to the contour of the outcrop and will be no higher than the adjacent rock. The bottom of the seal would be placed on bedrock. If the seal is location where soil would cover the seal, the bottom of the seal will be placed on bedrock and covered with a minimum of 4 feet of topsoil.

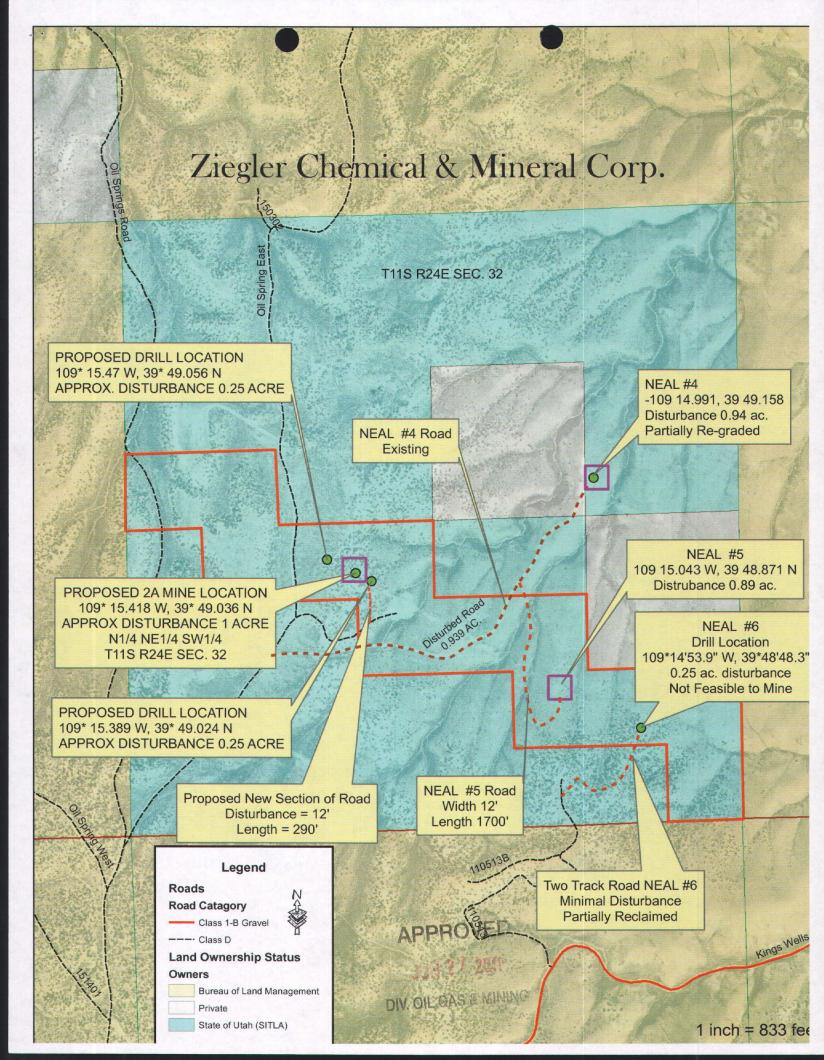
Upon completion of mine operations, all machinery, equipment and debris would be removed from the site. The site would be graded to conform as closely as possible to pre-mining conditions. The reclaimed area will be scarified, and re-vegetated with a seed mixture approved by D.O.G.M.

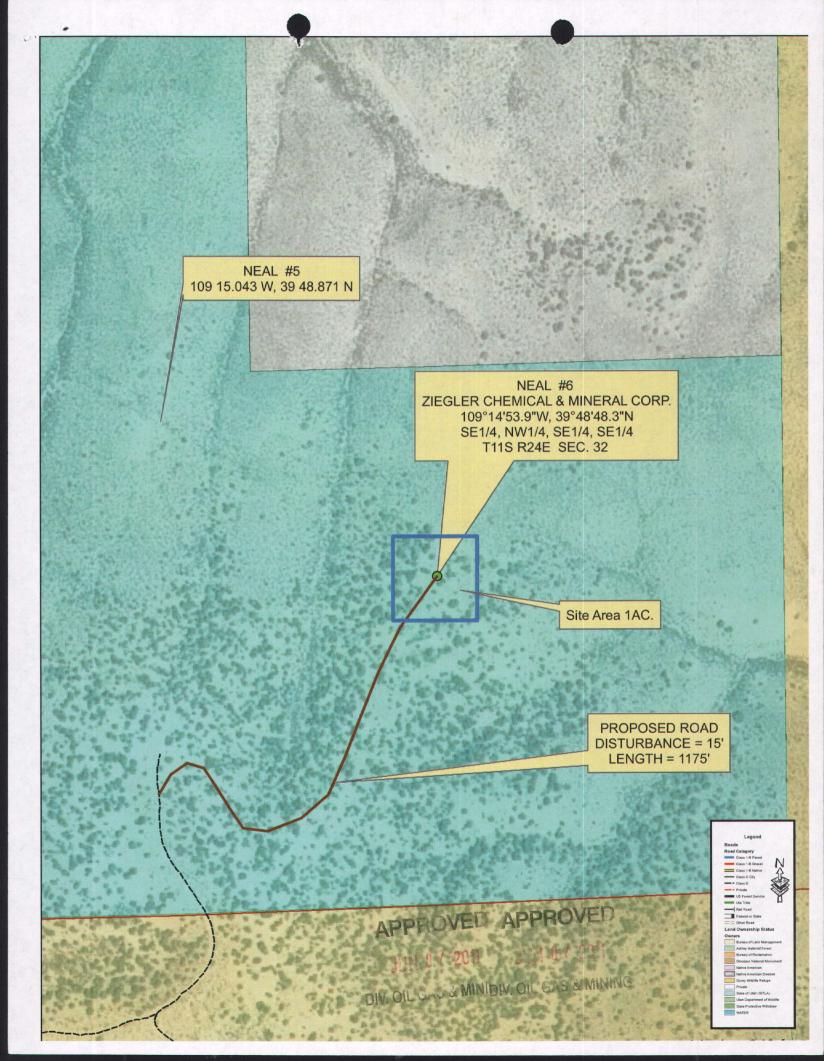
Ritchie Anderson

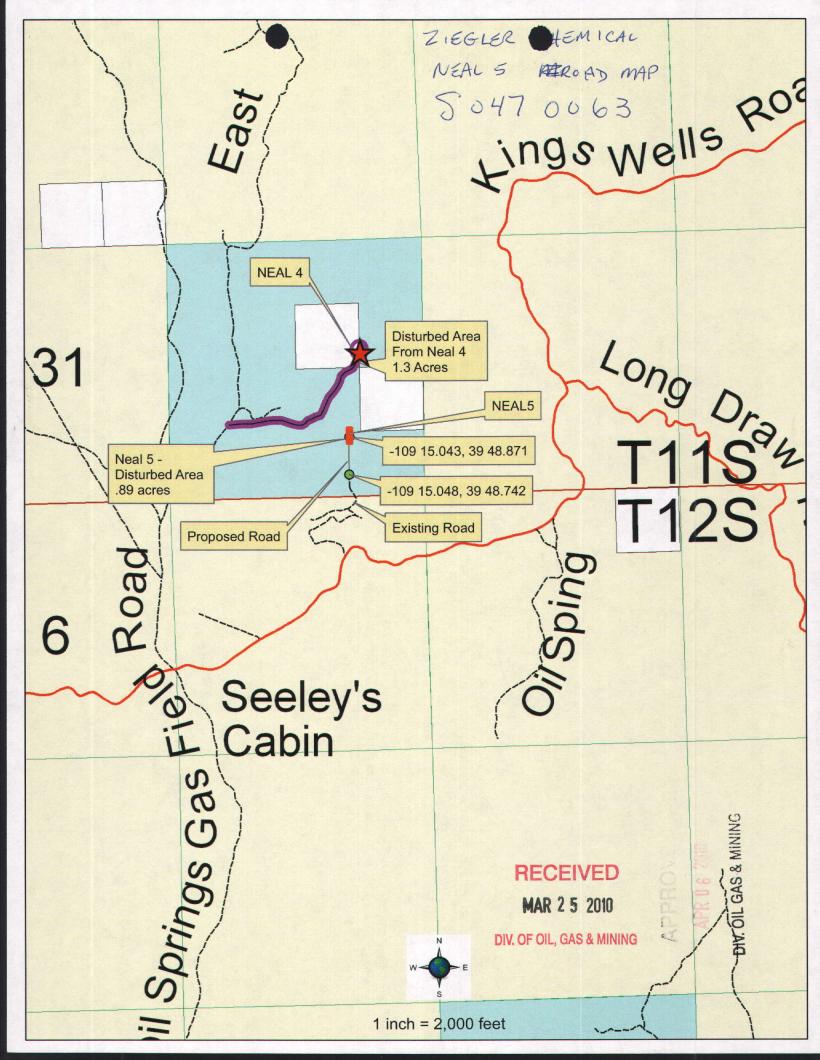
Mine Superintendent

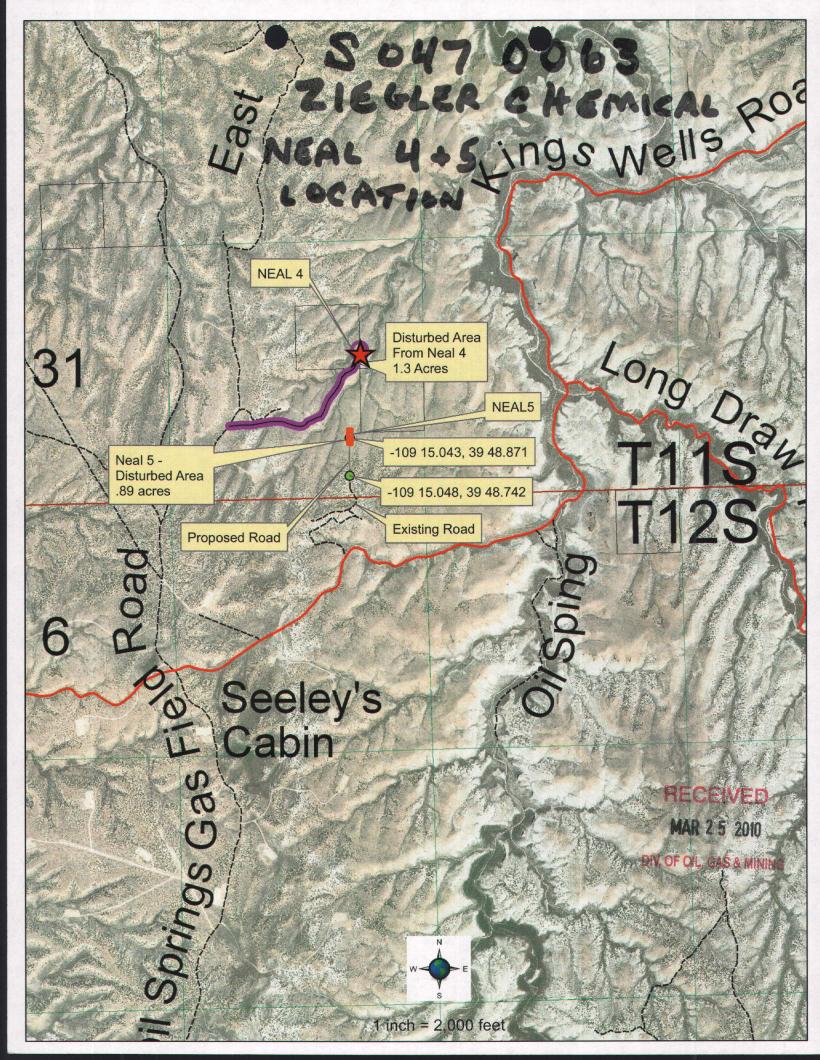
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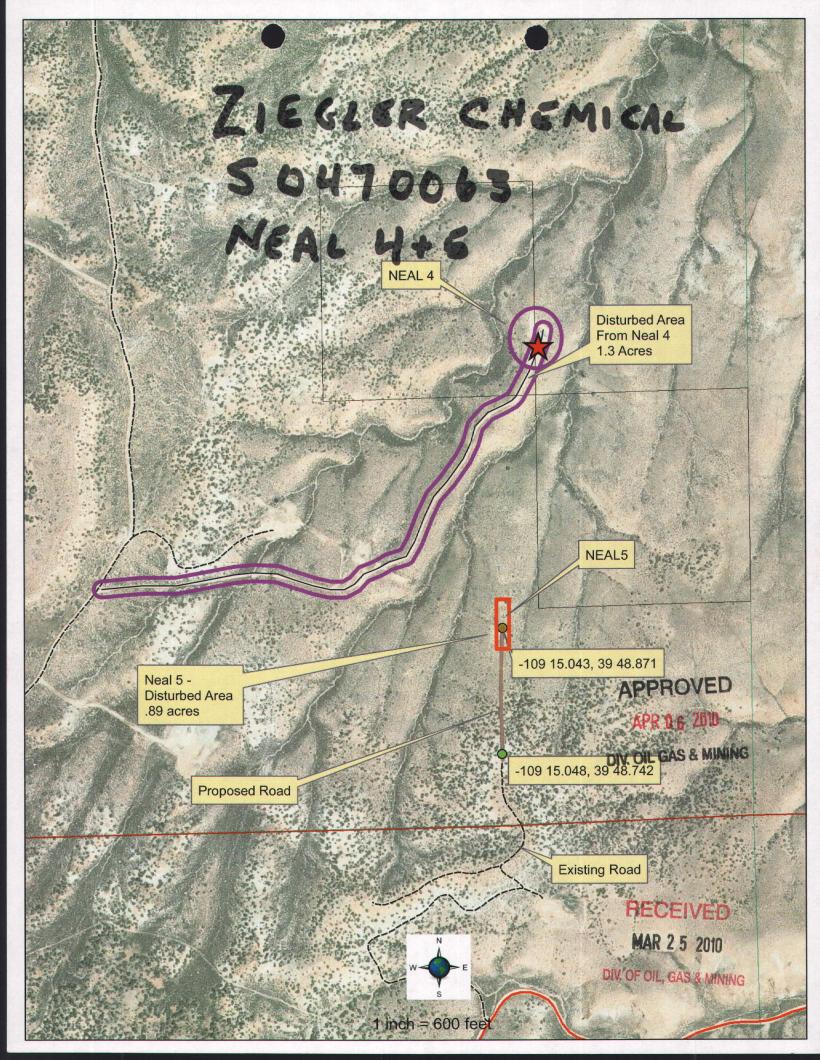
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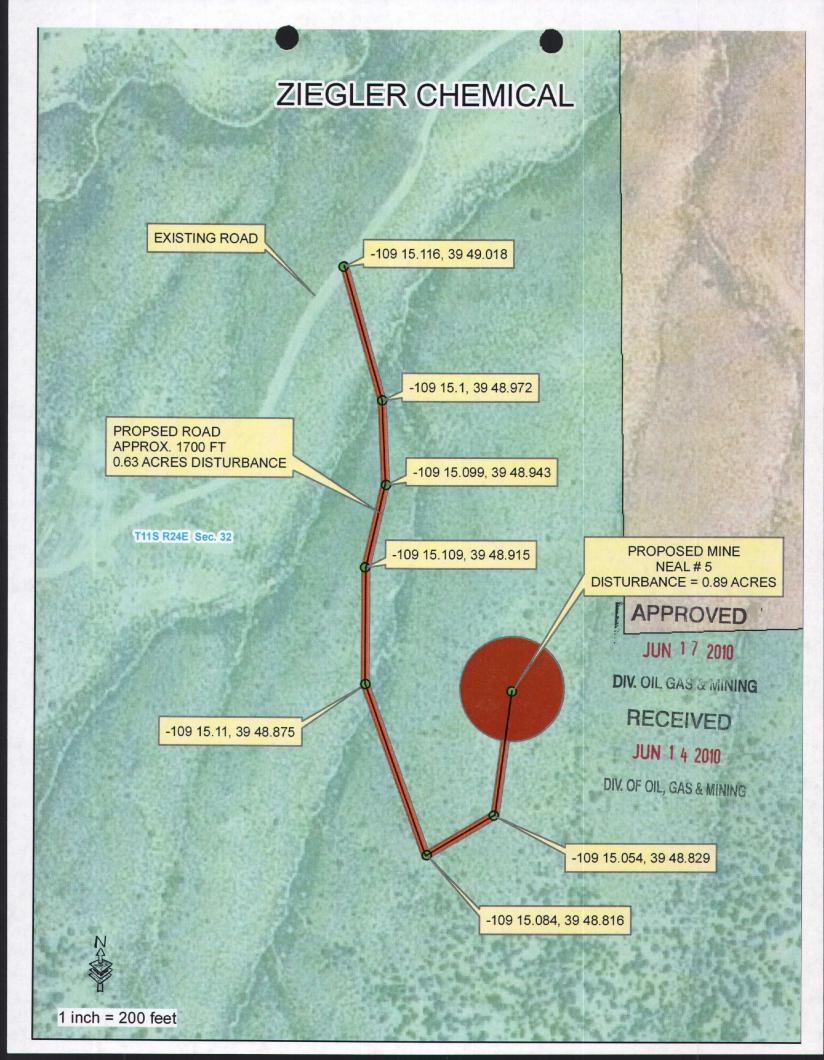


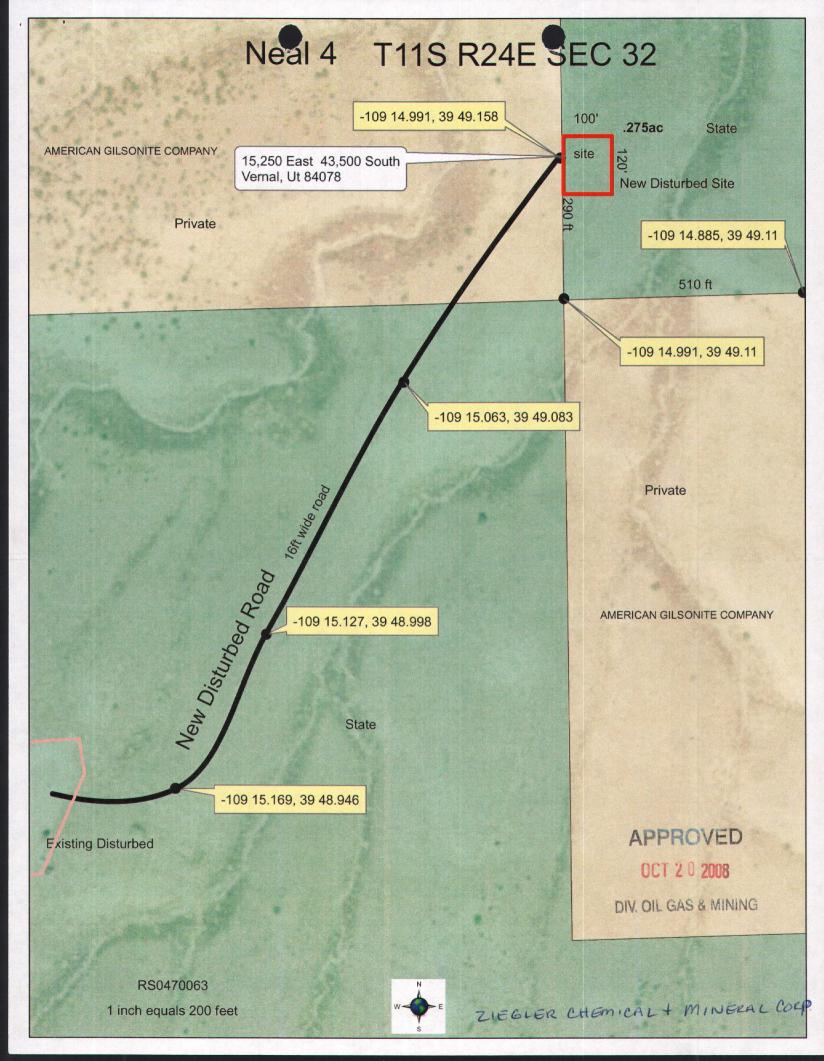


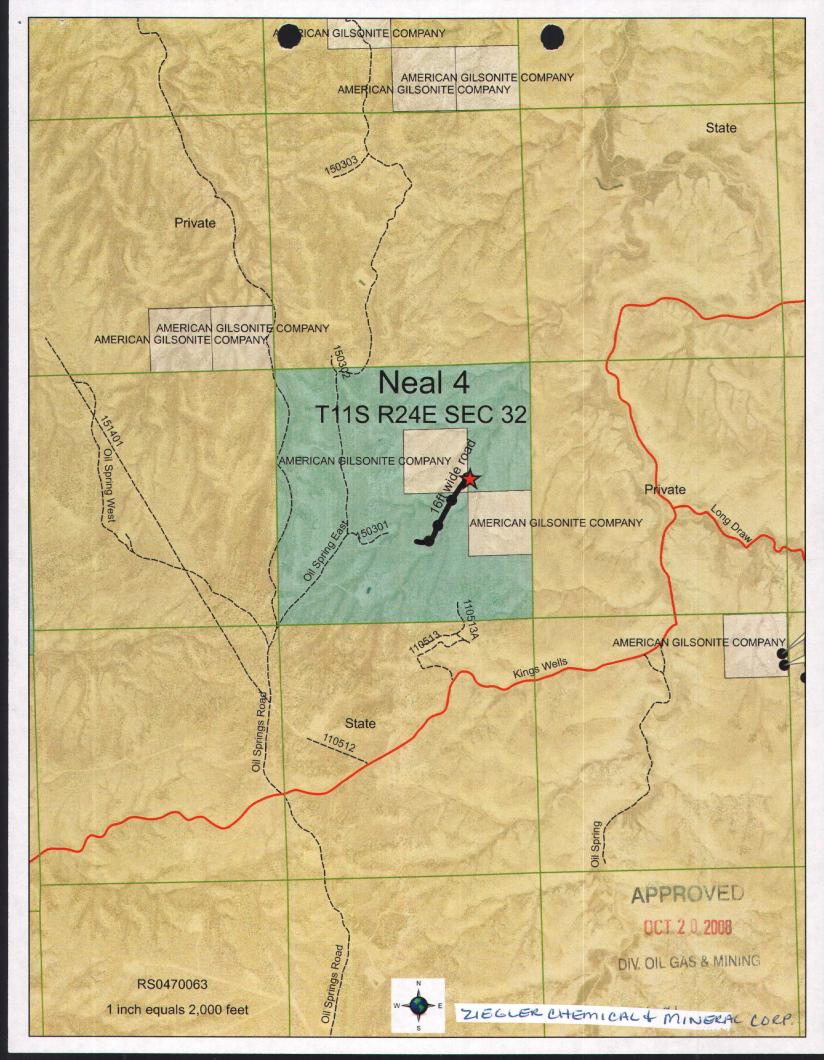


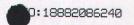














STAR ROUTE, LITTLE BONANZA, UTAH 84078

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Ziegler Chemical & Mineral Corp. Propose to remove Gilsonite from the Neal # 5 Mine located in

In order to supply the quality and quantity of Gilsonite requested by our customers, ZCMC would like to re-commence mining operations immediately upon approval of this mine plan.

Approximately 893 feet from the present mine opening to the southeast of the Neal #3 mine location an escape route 138 feet from the main shaft will be built along the strike of the vein. An ore bin and airlift system will be installed at the mine shaft to remove ore from the mine. ZCMC will place a derrick and hoist for the raising and lowering of men and materials.

The normal workforce would include two underground miners, one hoist man at the surface and on occasion one timber man. If demand increases more crews will be put in place to meet our customer's needs. The ore mined will reach the surface in an ore bin, from which it will be loaded into covered trucks and transported to ZCMC facilities at Little Bonanza.

The new road will be approximately 700 feet long by 16 feet wide. Due to the grade of the terrain construction of this road will require cut and fill. In addition, an area 120 feet by 100 feet will be leveled by cut and fill at the location of the Neal #5 hoist house and compressor shed. The total new disturbed area will be about .89 acres.

A portal will be built at the entrance of the Neal #5 mine to facilitate entry and exit of men and equipment. At the Neal #5 mine, a concrete collar approximately 18x 4 feet will be constructed at the surface to stabilize the shaft opening. All openings in the ground (shafts and escape ways) would be fenced with chain link.

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All enclosures would have gates with locks to provide a first line of security. Sufficient area inside the fenced area would be maintained for ingress and egress. The gates would be locked when the mine is not in operation. Signs will be placed in order to warn the public of mining operations.

A number of facilities other than the opening for the mine shaft and escape ways would be located on the surface, including:

- A hoist house and head frame to raise and lower the conveyance in the shaft at Neal #5.
- A 25-30 ton ore bin for the storage and loading of Gilsonite will be located on each mine site.
- A dust collector will be placed on the top of each storage bin to remove dust from the airlift system.
- Airlift fans will be installed on pad next to each head frame. These fans are designed to lift ore to the surface through a 12-inch pipe in the utility shaft.
- A compressor shed, for the diesel-powered compressor.
- Electricity to supply power to the hoists, compressor and fans would be provided by a diesel generator.

Top soil from disturbed areas would be stored in piles in the immediate vicinity of the area from which it will be removed. The topsoil pile will be seeded to stabilize it for future reclamation use.

A small waste rock pile. It is anticipated that very little waste rock would be produced. Only the Gilsonite would be extracted from the vein.

No water would be used in the mining operation. Any underground water encountered will be handled in accordance with federal water regulations and requirements.

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- All combustible materials including vegetation will be kept away from mine openings;
- Fire retardant paint will be put on all timber used in mine openings;
- No electrical equipment will be used underground
- Smoking and smoking materials will be prohibited underground.
- There will not be any explosives stored at the mine site.

Miners will be instructed to maintain a clean camp and to report any unusual activities that could be detrimental and/or unlawful. In order to minimize impacts to the environment from personnel involved in mining activities, employees would be subject to the following regulations:

- No open fires of any kind except in approved buildings in approved stoves or furnaces
- No illegal harassing or shooting of wildlife.
- No trash left in any unauthorized place.
- No unnecessary off-road driving.
- No collecting of plants.

For safety and mine efficiency, mobile telephone communications will be maintained between the mine and the Ziegler office in Little Bonanza.

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Upon completion of mine operations, all machinery, equipment and debris would be removed from the site. The site would be graded to conform as closely as possible to pre-mining conditions. The reclaimed area will be scarified, and re-vegetated with a seed mixture approved by D.O.G.M.

Bob Davis

Mine Superintendent

Ziegler Chemical & Mineral Corp proposes to remove Gilsonite from two (2) mines located in ML-49730 OBA. This lease is located in Section 32, T11S, R24E in Uintah County, Utah. The lease includes the following described lands:

The Neal #3 mine is located in the N ½ SW ¼ NW ¼ SE ¼ of section 32, and the Neal #4 mine will be located in the SW ½ SE ¼ NE ¼ of section 32. The Neal #4 will be located approximately 1800 feet to the northeast of the Neal #3.

In order to supply the quality and quantity of Gilsonite requested by our customers, ZCMC would like to re-commence mining operations immediately upon approval of this mine plan.

Approximately 1800 feet from the present mine opening to the northeast the Neal #4 mine location will be built to provide for an escape route 300 feet from the main shaft along the strike of the vein. An ore bin and airlift system will be installed at the mine shaft to remove ore from the mine. ZCMC will place a derrick and hoist for the raising and lowering of men and materials.

The normal workforce would include two underground miners, one hoist man at the surface and on occasion one timber man. If demand increases more crews will be put in place to meet our customer's needs. The ore mined will reach the surface in an ore bin, from which it will be loaded into covered trucks and transported to ZCMC facilities at Little Bonanza.

The new road will be approximately 1800 feet long by 16 feet wide. Due to the grade of the terrain construction of this road will require cut and fill. In addition, an area 120 feet by 100 feet will be leveled by cut and fill at the location of the Neal #4 hoist house and compressor shed. The total new disturbed area will be about .93 acres.

A portal will be built at the entrance of the Neal #4 mine to facilitate entry and exit of men and equipment. At the Neal #4 mine, a concrete collar approximately 18 x 4 feet will be constructed at the surface to stabilize the shaft opening. All openings in the ground (shafts and escape ways) would be fenced with chain link fencing. All enclosures

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would have gates with locks to provide a first line of security. Sufficient area inside the fenced area would be maintained for ingress and egress. The gates would be locked when the mine is not in operation. Signs will be placed in order to warn the public of mining operations.

A number of facilities other than the opening for the mine shaft and escape ways would be located on the surface, including:

- A hoist house and head frame to raise and lower the conveyance in the shaft at Neal #4.
- A 25-30 ton ore bin for the storage and loading of Gilsonite will be located on each mine site.
- A dust collector will be placed on the top of each storage bin to remove dust from the airlift system.
- Airlift fans will be installed on pad next to each head frame. These fans are designed to lift ore to the surface through a 12-inch pipe in the utility shaft.
- A compressor shed, for the diesel-powered compressor.
- Electricity to supply power to the hoists, compressor and fans would be provided by a diesel generator.

Top soil from disturbed areas would be stored in piles in the immediate vicinity of the area from which it will be removed. The topsoil pile will be seeded to stabilize it for future reclamation use.

A small waste rock pile. It is anticipated that very little waste rock would be produced. Only the Gilsonite would be extracted from the vein.

No water would be used in the mining operation. Any underground water encountered will be handled in accordance with federal water regulations and requirements.

Three Ansul 20-pound fire extinguishers would be on hand: two in the hoist house, and one by the compressor. All rules and regulations regarding fire prevention would be strictly adhered to. If a fire grows so large that is cannot be controlled with fire Extinguishers, Deseret Generation and Transmissions fire crew will be called to assist in fighting the fire. Uintah County/Vernal City will also be called as back up. If an under ground fire occurs, the mine would be sealed. In order to prevent and underground fire, the following precautions will be taken:

- All combustible materials including vegetation will be kept away from mine openings;
- Fire retardant paint will be put on all timber used in mine openings;
- No electrical equipment will be used underground; and
- Smoking and smoking materials will be prohibited underground.
- There will not be any explosives stored at the mine site.

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Miners will be instructed to maintain a clean camp and to report any unusual activities that could be detrimental and/or unlawful. In order to minimize impacts to the environment from personnel involved in mining activities, employees would be subject to the following regulations:

- No open fires of any kind except in approved buildings in approved stoves or furnaces
- No illegal harassing or shooting of wildlife.
- No trash left in any unauthorized place.
- No unnecessary off-road driving.
- No collecting of plants.

For safety and mine efficiency, mobile telephone communications will be maintained between the mine and the Ziegler office in Little Bonanza.

All garbage and solid wastes (other than wasted rock) will be placed in covered 55 gallon cans then taken to a dumpster, located on ZCMC property. A toilet will be located at the mine site for use by ZCMC personnel. A 10 foot deep pit will be dug underneath the toilet facility to accommodate sewage, which will be allowed to decompose in —situ.

When the mineshafts and escape ways are ready for closure, final designs would be submitted to the Division before seal construction. The collar and other structures will be removed. The mine openings will be sealed with 18 inch thick concrete reinforced with rebar placed on 12 inch centers. If the seal is to be in an exposed rock outcrop, the top of the seal will be constructed to conform to the contour of the outcrop and will be no higher than the adjacent rock. The bottom of the seal would be placed on bedrock. If the seal is location where soil would cover the seal, the bottom of the seal will be placed on bedrock and covered with a minimum of 4 feet of topsoil.

Upon completion of mine operations, all machinery, equipment and debris would be removed from the site. The site would be graded to conform as closely as possible to premining conditions. The reclaimed area will be scarified, and re-vegetated with a seed mixture approved by D.O.G.M.

Bob Davis

Mine Superintendent

Port Slavies

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